

## MEMORANDUM

To: **STACK TEST FILE – STERICYCLE**

Through: Bryce C. Bird, Air Standards Branch Manager

From: Harold Burge, Major Source Compliance Section Manager

Date: 2/21/2007

Subject: **COMPANY: STERICYCLE**  
**CONTACT: MILES HANSEN (936-1171)**  
**LOCATION: 90 N. 1100 W., NORTH SALT LAKE, DAVIS CO., UT**  
**TEST CONTRACTOR: CUSTOM STACK ANALYSIS**  
**SOURCE: MEDICAL WASTE INCINERATOR**  
**AIRS #: 01100055**  
**PERMIT #: 1100055001 REVISED 10/23/2003**  
**ACTION CODE: 3A**  
**SUBJECT: REVIEW OF STACK TEST REPORT DATED 12/27/2006 & ADDITIONAL INFORMATION RECEIVED 2/20/2007**

**FINDINGS:**

On 12/27/2006 DAQ received a stack test report for the Medical Waste Incinerator. Additional information was received on 2/20/2007. Testing was performed on 10/18/2006 to demonstrate compliance with the emission limits referenced in Permit Condition II.B.4.c and to establish new operating parameters in accordance with Permit Conditions II.B.4.c.1. The DAQ-calculated test results are:

<u>Source</u>	<u>Test Date</u>	<u>Pollutant</u>	<u>Result</u>	<u>Limit</u>
Medical Waste Incinerator	10/18/2006	PM	2 mg/dscm @ 7% O <sub>2</sub>	34 mg/dscm @ 7% O <sub>2</sub>
		CO	20 ppmdv @ 7% O <sub>2</sub>	40 ppmdv @ 7% O <sub>2</sub>
		Dioxin/furan	2 mg/dscm @ 7% O <sub>2</sub>	125 mg/dscm @ 7% O <sub>2</sub>
		Dioxin/furan (TEQ)	0.1 mg/dscm @ 7% O <sub>2</sub>	2.3 mg/dscm @ 7% O <sub>2</sub>
		HCl	6 ppmdv @ 7% O <sub>2</sub>	100 ppmdv @ 7% O <sub>2</sub>
		SO <sub>2</sub>	6 ppmdv @ 7% O <sub>2</sub>	55 ppmdv @ 7% O <sub>2</sub>
		NO <sub>x</sub>	250 ppmdv @ 7% O <sub>2</sub>	250 ppmdv @ 7% O <sub>2</sub>
		Pb	0.004 mg/dscm @ 7% O <sub>2</sub>	1.2 mg/dscm @ 7% O <sub>2</sub>
		Cd	0.001 mg/dscm @ 7% O <sub>2</sub>	0.16 mg/dscm @ 7% O <sub>2</sub>
		Hg	0.004 mg/dscm @ 7% O <sub>2</sub>	0.55 mg/dscm @ 7% O <sub>2</sub>

A three-hour VEO of stack emissions was performed during the stack test. No opacities were observed.

Operating parameters established during test:

Max.Charge Rate:	1,985.1 lb/hr
Min. Secondary Chamber Temperature:	1,797.6 F
Max. Reactor Inlet Temperature:	408 F
Min. Carbon Injection Rate:	2.85 lb/hr
Min. Scrubber Liquor Flow Rate:	62.1 lb/hr

Min. Scrubber Liquor pH:

5.98

**DEVIATIONS:**

None noted.

**CONCLUSION:**

At the time of testing, measured emissions appeared to be within limits.

**RECOMMENDATIONS:**

The facility should be considered in compliance with the above-mentioned emission limits at the time of testing.

Verify that the facility is operating within the above-mentioned operating parameters during the next inspection.